=> s f 79 FIV and vaccin? => s l 5299 VACCIND 9 L1 AND VACCIN? L2 => d bib ab 1-9

US PAT NO:

5,420,026 [IMAGE AVAILABLE]

L2: 1 of 9

33596

DATE ISSUED:

May 30, 1995

Self-assembling replication defective hybrid virus

particles

INVENTOR:

Lendon Payne, Arlington, MA

ASSIGNEE:

Therion Biologics Corporation, Cambridge, MA (U.S. corp.)

APPL-NO: 08/017,124

DATE FILED: Feb. 12, 1993 184

ART-UNIT: PRIM-EXMR:

Jacqueline Stone

ASST-FXMR:

LEGAL-REP:

Johnny F. Railey, II Sewall P. Bronstein, Ronald I. Eisenstein, David S.

Resnick

US PAT NO:

5.420.026 [IMAGE AVAILABLE]

L2: 1 of 9

### ABSTRACT:

The invention pertains to self-assembled replication defective hybrid virus-like particles having capsid and membrane glycoproteins from at least two different virus types and method of making same. Recombinant viral vectors as well as the viral particles can be used as immunogens and drug delivery vehicles.

US PAT NO:

DATE ISSUED:

TITLE:

5,413,927 [IMAGE AVAILABLE] L2: 2 of 9 May 9, 1995 Feline immunodeficiency virus isolate NCSU.sub.1Lb

INVENTOR:

Wayne A. F. Tompkins, Apex, NC Mary B. Tompkins, Apex, NC

ASSIGNEE:

North Carolina State University, Raleigh, NC (U.S. corp.)

APPL-NO: DATE FILED: 08/105,710 Aug. 12, 1993

ART-UNIT:

184

PRIM-EXMR:

Jacqueline Stone

ASST-EXMR: LEGAL-REP:

Johnny F. Railey, II Bell, Seltzer, Park & Gibson

US PAT NO:

5,413,927 [IMAGE AVAILABLE]

L2: 2 of 9

## **ABSTRACT:**

Disclosed is an isolated and purified feline immunodeficiency virus (\*\*FIV\*\*) culture having the identifying characteristics of \*\*FIV\*\* isolate NCSU.sub.1. A biologically pure culture of host cells containing a \*\*FIV\*\* having the identifying characteristics of \*\*FIV\*\* isolate NCSU.sub.1 is also disclosed, along with isolated and purified DNA coding for (a) an \*\*FIV\*\* having the identifying characteristics of \*\*FIV\*\* isolate NCSU.sub.1, or (b) an antigenic fragment of an \*\*FIV\*\* having the identifying characteristics of \*\*FIV\*\* isolate NCSU.sub.1. Various \*\*vaccine\*\* formulations containing active agents derived from the foregoing \*\*FIV\*\* virus, DNA encoding the virus, and DNA encoding antigenic fragments of the virus are also disclosed herein. Also disclosed are immunodeficient mice containing feline tissue, which feline tissue is capable of infection with a feline immunodeficiency virus such as (but not limited to) \*\*FIV\*\* isolate NCSU.sub.1.

US PAT NO:

5,413,914 [IMAGE AVAILABLE]

L2: 3 of 9

DATE ISSUED:

May 9, 1995

TITLE:

Yeast assay to identify inhibitors of dibasic amino acid

processing endoproteases

INVENTOR:

Alex Franzusoff, Boulder, CO

ASSIGNEE:

The Regents of the University of Colorado, Boulder, CO

(U.S. corp.) 08/088,322

APPL-NO: DATE FILED:

ART-UNIT:

Jul. 7, 1993 185

PRIM-EXMR:

Michael G. Wityshyn

ASST-EXMR:

Ralph Gitomer

LEGAL-REP:

Sheridan Ross & McIntosh

US PAT NO:

5.413.914 [IMAGE AVAILABLE]

L2: 3 of 9

### **ABSTRACT:**

The present invention relates to a novel method to identify compounds that inhibit proteolytic cleavage by dibasic amino acid processing endoproteases that includes contacting a yeast strain with a putative inhibitory compound under conditions in which, in the absence of the compound, the yeast strain can cleave a precursor protein having a dibasic amino acid processing site and determining if the putative inhibitory compound inhibits cleavage of the precursor protein. The present invention includes a method to identify compounds capable of inhibiting infectious agents, such as viruses, that depend upon dibasic amino acid processing endoprotease cleavage for propagation. The present invention also includes assay kits based on such a method.

US PAT NO:

5,380,830 [IMAGE AVAILABLE]

L2: 4 of 9

DATE ISSUED:

Jan. 10, 1995

TITLE:

Molecular clones of bovine immunodeficiency-like virus

INVENTOR:

Matthew A. Gonda, Walkersville, MD

ASSIGNEE:

The United States of America as represented by the

Secretary of the Department of Health and Human Services

Washington, DC (U.S. govt.)

APPL-NO:

07/980,324 Nov. 24, 1992

DATE FILED: ART-UNIT:

184

PRIM-EXMR: ASST-EXMR: Jacqueline Stone Johnny F. Railey, II

LEGAL-REP:

Susan S. Rucker

US PAT NO:

5.380.830 [IMAGE AVAILABLE]

L2: 4 of 9

### ABSTRACT:

Biologically active proviral molecular clones of bovine immunodeficiency-like virus and cell lines infected with the same have been prepared. Various utilities of the clones are described.

US PAT NO:

5,352,665 [IMAGE AVAILABLE]

L2: 5 of 9

DATE ISSUED:

Oct. 4, 1994

TITLE:

Method of treating disease caused by the infection of

virus

INVENTOR:

Akira Awaya, Yokohama, Japan Hisashi Kobayashi, Mobara, Japan Yusaku Ishizuka, Yokohama, Japan Hayao Abe, Mobara, Japan

**ASSIGNEE:** 

Mitsui Toatsu Chemicals, Incorporated, Tokyo, Japan

(foreign corp.)

APPL-NO: DATE FILED: 08/091,745 Jul. 15, 1993

ART-UNIT:

181

PRIM-EXMR: **LEGAL-REP:**  Lester L. Lee Nixon & Vanderhye

US PAT NO:

5,352,665 [IMAGE AVAILABLE]

L2: 5 of 9

A medicament for prevention and remedy of diseases caused by the infection of viruses is disclosed, which is characterized by containing as an effective ingredient thereof a nonapeptide having the following amino acid configuration:

pGlu-Ala-Lys-Ser-Gln-Gly-Gly-Ser-Asn or an ester and an amide at the carboxyl group of the C-terminal of the asparagine or a pharmacologically acceptable salt thereof.

US PAT NO:

5,324,664 [IMAGE AVAILABLE] Jun. 28, 1994

L2: 6 of 9

DATE ISSUED:

TITLE:

Herpes virus thymidien kinase-encoding DNA

INVENTOR:

Jack H. Nunberg, San Carlos, CA Leonard E. Post, Ann Arbor, MI Teresa Compton, Madison, WI

Erik A. Petrovskis, Ann Arbor, MI

ASSIGNEE:

The Upjohn Company, Kalamazoo, MI (U.S. corp.)

08/007,392 APPL-NO: Jan. 21, 1993 DATE FILED:

ART-UNIT: 185

PRIM-EXMR: Richard A. Schwartz

ASST-EXMR: David Guzo

**LEGAL-REP:** James D. Darnely, Jr., Gregory W. Steele, Sidney B.

Williams, Jr.

US PAT NO: 5,324,664 [IMAGE AVAILABLE] L2: 6 of 9

Methods for isolating thymidine kinase-encoding DNA of a herpes virus are described. These methods utilize degenerate primers based on regions of relatively conserved amino acid sequence in herpes virus thymidine kinase proteins to initiate a polymerase chain reaction which yields large amounts of the thymidine kinase-encoding DNA. The methods are illustrated in the isolation of the thymidine kinase gene of feline herpes virus. which can be used to construct recombinant thymidine kinase-negative feline herpes viruses for purposes of constructing live \*\*vaccines\*\* and expression vectors. In addition, the regulatory elements of the feline herpes virus thymidine kinase gene are useful in the construction of recombinant DNA vectors.

L2: 7 of 9 US PAT NO: 5,324,643 [IMAGE AVAILABLE]

Jun. 28, 1994 DATE ISSUED:

TITLE: Method of conferring resistance to retroviral infection

Wilson Greatbatch, Akron, NY INVENTOR: John C. Sanford, Geneva, NY

ASSIGNEE: Greatbatch Gen-Aid, Ltd., Clarence, NY (U.S. corp.)

APPL-NO: 07/739,718 DATE FILED: Jul. 29, 1991 ART-UNIT: 184 PRIM-EXMR: Jacqueline Stone ASST-FXMR: Johnny F. Railey, II

LEGAL-REP: Hodgson, Russ, Andrews, Woods & Goodyear

US PAT NO: 5,324,643 [IMAGE AVAILABLE] L2: 7 of 9

# ABSTRACT:

In accordance with the present invention, disclosed is a method of conferring, upon a host cell, resistance to retroviral infection by interfering with one or more of the infection processes including retroviral replication and assembly into infective viral particles. The method involves introducing a vector into a host cell, wherein the vector comprises a polynucleotide which directs transcription, within the host cell, of RNA which is a) complementary or homologous, depending on the target region, to a nucleic acid sequence within one or more regions of the genome of the retrovirus; and b) is effective in inhibiting retroviral replication and/or interfering with assembly into viral particles when the host cell is infected. Also disclosed is a method of treatment using cells upon which resistance to infection has been conferred.

US PAT NO: 5,275,813 [IMAGE AVAILABLE] L2: 8 of 9

Jan. 4, 1994 DATE ISSUED:

Methods and compositions for \*\*vaccinating\*\* against TITLE:

feline immunodeficiency virus INVENTOR:

Janet K. Yamamoto, Hercules, CA Niels C. Pedersen, Winters, CA The Regents of the University of California, Oakland, CA ASSIGNEE:

(U.S. corp.) 07/739,014

DATE FILED: Jul. 31, 1991 ART-UNIT: 183

PRIM-EXMR: Christine M. Nucker

ASST-EXMR: D. Barnd

LEGAL-REP: Townsend and Townsend Khourie and Crew

US PAT NO: 5,275,813 [IMAGE AVAILABLE] L2: 8 of 9

APPL - NO:

Compositions derived from a novel viral isolate designated feline immunodeficiency virus (\*\*FIV\*\*) include the whole virus, proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful

in a variety of techniques for the detection of and \*\*vaccination\*\* against \*\*FIV\*\*. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. \*\*Vaccines\*\* include both wholly and partially inactivated viruses inactivated cell lines expressing \*\*FIV\*\* antigens, and subunit \*\*vaccines\*\*. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (HIV).

US PAT NO:

4,396,600 [IMAGE AVAILABLE]

L2: 9 of 9

DATE ISSUED:

Aug. 2, 1983

TITLE:

Adult schistosome worm-derived antigenic substance and

INVENTOR:

method of obtaining same Luigi Messineo, Broadview Heights, OH

ASSIGNEE:

Mauro Scarpin, Rio de Janeiro, Brazil Gus Gallucci, Akron, OH (U.S. indiv.) Mike Gallucci, Akron, OH (U.S. indiv.)

Michael Gallucci, Jr., Broadview Heights, OH (U.S. indiv.) Don Lower, Leesburg, VA, part interest to each (U.S.

indiv.) 06/217,575

APPL-NO: DATE FILED: ART-UNIT:

Dec. 18, 1980 125

PRIM-EXMR: Anna P. Fagelson **LEGAL-REP:** Sherman & Shalloway

US PAT NO:

4,396,600 [IMAGE AVAILABLE]

L2: 9 of 9

## **ABSTRACT:**

An extract of adult Schistosome mansoni worms, obtained by incubation in 0.15 M sodium chloride-sodium phosphate buffer (pH 6.8), contains protein, carbohydrates, and nucleic acid and/or by-products of the latter component and resolves into four major fractions by gel chromatography in G-100 and G-200 Sephadex columns. Immunodiffusion tests with rabbit anti-total extract serum reveal three precipitation lines corresponding to fractions I and II, and one with III or IV. Rabbits immunized with this total extract are found to be totally or partially (at least 77%) resistant to a challenge infection. The saline extract antigenic material is an effective \*\*vaccine\*\* for the treatment and immunization of schistosomiasis and other schistosome infections.

=> s ftlv

L3

5 FTLV

=> s l3 and vaccin? 5299 VACCIN?

3 L3 AND VACCIN?

=> d bib ab 1-3

US PAT NO:

5,275,813 [IMAGE AVAILABLE]

L4: 1 of 3

DATE ISSUED:

Jan. 4, 1994

TITLE:

Methods and compositions for \*\*vaccinating\*\* against

feline immunodeficiency virus

INVENTOR:

Janet K. Yamamoto, Hercules, CA Niels C. Pedersen, Winters, CA The Regents of the University of California, Oakland, CA

ASSIGNEE:

(U.S. corp.) 07/739,014 APPL-NO:

DATE FILED:

ART-UNIT:

Jul. 31, 1991 183

PRIM-EXMR:

Christine M. Nucker D. Barnd

ASST-EXMR: LEGAL-REP:

Townsend and Townsend Khourie and Crew

US PAT NO:

5,275,813 [IMAGE AVAILABLE]

L4: 1 of 3

Compositions derived from a novel viral isolate designated feline immunodeficiency virus (FIV) include the whole virus, proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and \*\*vaccination\*\* against FIV. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide

probes to detect the viral genome. \*\*Vaccines\*\* include both wholly and partially inactivated viruses inactivated cell lines expressing FIV antigens, and subunit \*\*vaccines\*\*. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (HIV).

US PAT NO: 5,118,602 [IMAGE AVAILABLE] L4: 2 of 3

DATE ISSUED:

Jun. 2, 1992 Feline T-lymphotropic lentivirus assay

INVENTOR:

ASSIGNEE:

TITLE:

Niels C. Pedersen, Winters, CA Janet K. Yamamoto, Davis, CA The Regents of the University of California, Oakland, CA

(U.S. corp.) 07/614,474

APPL-NO: DATE FILED:

Nov. 16, 1990

ART-UNIT:

182

PRIM-EXMR: ASST-EXMR: Esther L. Kepplinger Donna C. Wortman Townsend and Townsend

LEGAL-REP: US PAT NO:

5,118,602 [IMAGE AVAILABLE]

L4: 2 of 3

## ABSTRACT:

Compositions derived from a novel viral isolate designated feline T-lymphotropic lentivirus (\*\*FTLV\*\*) include the whole virus; proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and \*\*vaccination\*\* against \*\*FTLV\*\*. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. \*\*Vaccines\*\* include both wholly and partially inactivated viruses and subunit \*\*vaccines\*\*. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (HIV).

US PAT NO:

5,037,753 [IMAGE AVAILABLE]

L4: 3 of 3

DATE ISSUED:

Aug. 6, 1991 Feline t-lymphotropic lentivirus TITLE:

INVENTOR:

Niels C. Pedersen, Winters, CA Janet K. Yamamoto, Davis, CA

ASSIGNEE:

The Regents of the University of California, Berkeley, CA

(U.S. corp.) 07/618,030 APPL-NO:

DATE FILED:

Nov. 16, 1990

ART-UNIT:

185

PRIM-FXMR: Richard A. Schwartz ASST-EXMR: M. R. Mosher

LEGAL-REP:

Townsend and Townsend

US PAT NO:

5,037,753 [IMAGE AVAILABLE]

L4: 3 of 3

Compositions derived from a novel viral isolate designated feline T-lymphototropic lentivirus (\*\*FTLV\*\*) include the whole virus; proteins, polypeptides and, polynucleotide sequences derived from the virus: and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and \*\*vaccination\*\* against \*\*FTLV\*\*. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. \*\*Vaccines\*\* include both wholly and partially inactivated viruses and subunit \*\*vaccines\*\*. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (HIV).

=> e yamamoto, janet/in

E1	1	YAMAMOTO,	IWAWO/IN
E2	3	YAMAMOTO,	IZURU/IN
E3	1>	YAMAMOTO,	JANET/IN
E4	3	YAMAMOTO,	JANET K/IN
E5	6	YAMAMOTO,	JIRO/IN
E6		YAMAMOTO,	JOHN R/IN
E7		YAMAMOTO,	JOSHIJI/IN
E8	.2	YAMAMOTO,	JUICHI/IN
E9	13	YAMAMOTO,	JUN/IN
E10	2	YAMAMOTO,	JUN ICHI/IN

E11 YAMAMOTO, JUNICH/IN E12 19 YAMAMOTO, JUNICHI/IN

=> s e3 or e4

1 "YAMAMOTO, JANET"/IN

3 "YAMAMOTO, JANET K"/IN 4 "YAMAMOTO, JANET"/IN OR "YAMAMOTO, JANET K"/IN

=> d bib ab 1-4

US PAT NO: 5,275,813 [IMAGE AVAILABLE] L6: 1 of 4

DATE ISSUED:

Jan. 4, 1994 Methods and compositions for vaccinating against feline TITLE:

immunodeficiency virus

\*\*Janet K. Yamamoto\*\*, Hercules, CA INVENTOR:

Niels C. Pedersen, Winters, CA The Regents of the University of California, Oakland, CA ASSIGNEE:

(U.S. corp.) 07/739,014

APPL-NO: Jul. 31, 1991 DATE FILED:

183 ART-UNIT:

PRIM-EXMR: Christine M. Nucker

ASST-EXMR: D. Barnd

LEGAL-REP: Townsend and Townsend Khourie and Crew

US PAT NO: 5,275,813 [IMAGE AVAILABLE] L6: 1 of 4

Compositions derived from a novel viral isolate designated feline immunodeficiency virus (FIV) include the whole virus, proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and vaccination against FIV. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. Vaccines include both wholly and partially inactivated viruses inactivated cell lines expressing FIV antigens, and subunit vaccines. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (HIV).

L6: 2 of 4 US PAT NO: 5,118,602 [IMAGE AVAILABLE]

DATE ISSUED:

Jun. 2, 1992 Feline T-lymphotropic lentivirus assay TITLE:

INVENTOR:

Niels C. Pedersen, Winters, CA
\*\*Janet K. Yamamoto\*\*, Davis, CA
The Regents of the University of California, Oakland, CA ASSIGNEF:

(U.S. corp.) APPL-NO: 07/614,474

Nov. 16, 1990 DATE FILED:

ART-UNIT: 182

Esther L. Kepplinger PRIM-EXMR: Donna C. Wortman ASST-EXMR: LEGAL-REP: Townsend and Townsend

US PAT NO: 5.118.602 [IMAGE AVAILABLE] L6: 2 of 4

## ABSTRACT:

Compositions derived from a novel viral isolate designated feline T-lymphotropic lentivirus (FTLV) include the whole virus; proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and vaccination against FTLV. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. Vaccines include both wholly and partially inactivated viruses and subunit vaccines. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (HIV).

US PAT NO: 5,037,753 [IMAGE AVAILABLE] L6: 3 of 4 DATE ISSUED:

Aug. 6, 1991 Feline t-lymphotropic lentivirus TITLE: Niels C. Pedersen, Winters, CA \*\*Janet K. Yamamoto\*\*, Davis, CA INVENTOR:

ASSIGNEE: The Regents of the University of California, Berkeley, CA

(U.S. corp.) 07/618,030

APPL-NO: Nov. 16, 1990 DATE FILED:

ART-UNIT: 185

PRIM-EXMR: Richard A. Schwartz

ASST-EXMR: M. R. Mosher

Townsend and Townsend LEGAL-REP:

5,037,753 [IMAGE AVAILABLE] L6: 3 of 4 US PAT NO:

Compositions derived from a novel viral isolate designated feline T-lymphototropic lentivirus (FTLV) include the whole virus; proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and vaccination against FTLV. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. Vaccines include both wholly and partially inactivated viruses and subunit vaccines. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (HIV).

4,861,720 [IMAGE AVAILABLE] Aug. 29, 1989 L6: 4 of 4 US PAT NO:

DATE ISSUED:

Oncornavirus vaccines and feline alpha-type interferon TITLE:

Neils C. Pedersen, Winters, CA \*\*Janet Yamamoto\*\*, Woodland, CA INVENTOR:

Regents of the University of California, CA (U.S. corp.) ASSIGNEE:

APPL-NO: 06/882,088 DATE FILED: Jul. 3, 1986 ART-UNIT: 185

PRIM-EXMR: Blondel Hazel

Bertram I. Rowland, W. Murray Spruill LEGAL-REP:

L6: 4 of 4 US PAT NO: 4,861,720 [IMAGE AVAILABLE]

# ABSTRACT:

Retroviral vaccines are provided comprising incompetent retroviruses containing defective RNA produced by growing viral transformed cells in the presence of interferon. The resulting defective viruses by themselves or in combination with interferon can be used as vaccines for immunizing viral sensitive hosts against infection. A novel feline interferon is produced in culture with cells infected with the defective non-infectious retroviruses.

=> s aids or hiv

62957 AIDS 2296 HIV

63877 AIDS OR HIV

=> s l7 and (cat? or feline?)

TERM 'CAT?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED

=> s l7 and (cat or feline?) 12163 CAT

908 FELINE?

L8 1060 L7 AND (CAT OR FELINE?)

=> s l8 and vaccin? 5299 VACCIN?

L9 183 L8 AND VACCIN?

=> s l9 and ftlv

3 L9 AND FTLV L 10

=> d cit 1-3

- 5,275,813, Jan. 4, 1994, Methods and compositions for \*\*vaccinating\*\* against \*\*feline\*\* immunodeficiency virus; Janet K. Yamamoto, et al., 424/208.1, 819 [IMAGE AVAILABLE]
- 2. 5,118,602, Jun. 2, 1992, \*\*Feline\*\* T-lymphotropic lentivirus assay;

Niels C. Pedersen, et al., 435/5, 7.92; 436/518 [IMAGE AVAILABLE]

3. 5,037,753, Aug. 6, 1991, \*\*Feline\*\* t-lymphotropic lentivirus; Niels C. Pedersen, et al., 435/235.1; 424/208.1; 435/5, 948; 530/388.35 [IMAGE AVAILARI F1

=> s l9 and lentivirus 77 LENTIVIRUS

13 L9 AND LENTIVIRUS

=> d 1-13 bib ab

US PAT NO:

5,420,026 [IMAGE AVAILABLE]

L11: 1 of 13

DATE ISSUED:

May 30, 1995

TITLE:

Self-assembling replication defective hybrid virus

particles INVENTOR:

ASSIGNEE:

Lendon Payne, Arlington, MA

APPL-NO:

Therion Biologics Corporation, Cambridge, MA (U.S. corp.)

DATE FILED:

08/017,124 Feb. 12, 1993

ART-UNIT:

184

PRIM-EXMR:

Jacqueline Stone

ASST-EXMR: LEGAL-REP:

Johnny F. Railey, II Sewall P. Bronstein, Ronald I. Eisenstein, David S.

Resnick

US PAT NO:

5,420,026 [IMAGE AVAILABLE]

L11: 1 of 13

### ABSTRACT:

The invention pertains to self-assembled replication defective hybrid virus-like particles having capsid and membrane glycoproteins from at least two different virus types and method of making same. Recombinant viral vectors as well as the viral particles can be used as immunogens and drug delivery vehicles.

US PAT NO:

5,413,927 [IMAGE AVAILABLE] L11: 2 of 13 May 9, 1995 \*\*Feline\*\* immunodeficiency virus isolate NCSU.sub.1Lb

L11: 2 of 13

DATE ISSUED:

TITLE:

INVENTOR: Wayne A. F. Tompkins, Apex, NC

Mary B. Tompkins, Apex, NC

**ASSIGNEE:** North Carolina State University, Raleigh, NC (U.S. corp.)

08/105,710 Aug. 12, 1993 APPL-NO:

DATE FILED:

ART-UNIT: PRIM-FXMR: 184 Jacqueline Stone

ASST-EXMR: **LEGAL-REP:** 

Johnny F. Railey, II

Bell, Seltzer, Park & Gibson 5,413,927 [IMAGE AVAILABLE]

US PAT NO:

ABSTRACT: Disclosed is an isolated and purified \*\*feline\*\* immunodeficiency virus (FIV) culture having the identifying characteristics of FIV isolate NCSU.sub.1. A biologically pure culture of host cells containing a FIV having the identifying characteristics of FIV isolate NCSU.sub.1 is also disclosed, along with isolated and purified DNA coding for (a) an FIV having the identifying characteristics of FIV isolate NCSU.sub.1, or (b) an antigenic fragment of an FIV having the identifying characteristics of FIV isolate NCSU.sub.1. Various \*\*vaccine\*\* formulations containing active agents derived from the foregoing FIV virus, DNA encoding the virus, and DNA encoding antigenic fragments of the virus are also

disclosed herein. Also disclosed are immunodeficient mice containing \*\*feline\*\* tissue, which \*\*feline\*\* tissue is capable of infection with a \*\*feline\* immunodeficiency virus such as (but not limited to) FIV isolate NCSU.sub.1.

US PAT NO:

5,413,914 [IMAGE AVAILABLE]

L11: 3 of 13

May 9, 1995 DATE ISSUED:

TITLE:

Yeast assay to identify inhibitors of dibasic amino acid

processing endoproteases Alex Franzusoff, Boulder, CO

INVENTOR: ASSIGNEE:

The Regents of the University of Colorado, Boulder, CO

(U.S. corp.)

08/088,322 APPL-NO: DATE FILED: Jul. 7, 1993 ART-UNIT: 185

PRIM-EXMR: Michael G. Wityshyn

ASST-EXMR: Ralph Gitomer

Sheridan Ross & McIntosh LEGAL-REP:

5,413,914 [IMAGE AVAILABLE] L11: 3 of 13 US PAT NO:

## ABSTRACT:

The present invention relates to a novel method to identify compounds that inhibit proteolytic cleavage by dibasic amino acid processing endoproteases that includes contacting a yeast strain with a putative inhibitory compound under conditions in which, in the absence of the compound, the yeast strain can cleave a precursor protein having a dibasic amino acid processing site and determining if the putative inhibitory compound inhibits cleavage of the precursor protein. The present invention includes a method to identify compounds capable of inhibiting infectious agents, such as viruses, that depend upon dibasic amino acid processing endoprotease cleavage for propagation. The present invention also includes assay kits based on such a method.

5,380,830 [IMAGE AVAILABLE] US PAT NO: L11: 4 of 13

DATE ISSUED: Jan. 10, 1995

TITLE: Molecular clones of bovine immunodeficiency-like virus

INVENTOR: Matthew A. Gonda, Walkersville, MD

ASSIGNEE: The United States of America as represented by the

Secretary of the Department of Health and Human Services

Washington, DC (U.S. govt.)

07/980,324 APPL-NO: DATE FILED: Nov. 24, 1992

ART-UNIT: 184

PRIM-EXMR: Jacqueline Stone ASST-EXMR: Johnny F. Railey, II LEGAL-REP: Susan S. Rucker

US PAT NO: 5,380,830 [IMAGE AVAILABLE] L11: 4 of 13

# ABSTRACT:

Biologically active proviral molecular clones of bovine immunodeficiency-like virus and cell lines infected with the same have been prepared. Various utilities of the clones are described.

5,275,813 [IMAGE AVAILABLE] US PAT NO: L11: 5 of 13

Jan. 4, 1994 DATE ISSUED:

Methods and compositions for \*\*vaccinating\*\* against 
\*\*feline\*\* immunodeficiency virus TITLE:

INVENTOR:

Janet K. Yamamoto, Hercules, CA Niels C. Pedersen, Winters, CA The Regents of the University of California, Oakland, CA ASSIGNEE:

(U.S. corp.) 07/739,014

APPL-NO: Jul. 31, 1991 DATE FILED:

ART-UNIT: 183

PRIM-EXMR: Christine M. Nucker

ASST-EXMR: D. Barnd

Townsend and Townsend Khourie and Crew LEGAL-REP:

US PAT NO: 5,275,813 [IMAGE AVAILABLE] L11: 5 of 13

# ABSTRACT:

Compositions derived from a novel viral isolate designated \*\*feline\*\* immunodeficiency virus (FIV) include the whole virus, proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and \*\*vaccination\*\* against FIV. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. \*\*Vaccines\*\* include both wholly and partially inactivated viruses inactivated cell lines expressing FIV antigens, and subunit \*\*vaccines\*\*. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (\*\*HIV\*\*).

US PAT NO: 5,256,767 [IMAGE AVAILABLE] L11: 6 of 13

Oct. 26, 1993 Retroviral antigens DATE ISSUED: TITLE:

INVENTOR: Jonas Salk, La Jolla, CA

Dennis J. Carlo, Rancho Santa Fe, CA

ASSIGNEE: The Immune Response Corporation, Carlsbad, CA (U.S. corp.)

APPL-NO: 07/975,899 Nov. 10, 1992 DATE FILED:

183 ART-UNIT:

PRIM-FXMR: Christine M. Nucker

ASST-EXMR: L. F. Smith

LEGAL-REP: Campbell and Flores

US PAT NO: 5,256,767 [IMAGE AVAILABLE] L11: 6 of 13

## **ABSTRACT:**

The present invention provides a non-infectious immunotherapeutic containing retroviral particles devoid of outer envelope proteins or containing selected antigens isolated from a retrovirus. There is also provided a \*\*vaccine\*\* effective against \*\*HIV\*\*. In one aspect, the immunogen is useful for immunizing an individual previously infected by a retrovirus including \*\*HIV\*\*, so as to induce immunoprotective factors protective against progression of the infection. In another aspect, the \*\*vaccine\*\* is useful for \*\*vaccinating\*\* an individual not previously infected with \*\*HIV\*\* in order to prevent subsequently acquired infection. In another aspect, there is provided a method of rendering a viral immunogen non-infectious. The immunogen may also be used to produce antibodies for passive immunotherapy, alone or in conjunction with active immunotherapy, in individuals infected with a retrovirus, including \*\*\*HIV\*\*, preferably those individuals exhibiting low levels of antibodies to retroviral gene products other than the outer envelope.

5,171,662 [IMAGE AVAILABLE] Dec. 15, 1992 L11: 7 of 13 US PAT NO:

DATE ISSUED:

Method of detecting \*\*HIV\*\* protease activity Satish K. Sharma, Portage, MI TITLE:

INVENTOR:

The Upjohn Company, Kalamazoo, MI (U.S. corp.) ASSIGNEE:

APPL-NO: 07/680,679 DATE FILED: Apr. 4, 1991

ART-UNIT: 183

PRIM-EXMR: Christine M. Nucker ASST-EXMR: Chris Dubrule

LEGAL-REP: Mark DeLuca

L11: 7 of 13 US PAT NO: 5.171,662 [IMAGE AVAILABLE]

## ABSTRACT:

A method for identifying compounds that inhibit \*\*HIV\*\* protease is disclosed. A substrate that comprises an \*\*HIV\*\* protease cleavage site is combined with \*\*HIV\*\* protease and test compounds. Cleavage of the substrate indicates protease activity and can be detected using antibodies against a cleavage product which do not cross react with uncleaved substrate. A method of detecting the presence of anti-\*\*HIV\*\* protease antibodies in a sample is also disclosed. A substrate is combined with the sample and \*\*HIV\*\* protease. Detection of substrate cleavage indicates that the protease is active and that there is an absence of neutralizing anti-\*\*HIV\*\* protease antibodies.

US PAT NO: 5,118,602 [IMAGE AVAILABLE] L11: 8 of 13

DATE ISSUED: Jun. 2, 1992

\*\*Feline\*\* T-lymphotropic \*\*lentivirus\*\* assay TITLE:

INVENTOR: Niels C. Pedersen, Winters, CA Janet K. Yamamoto, Davis, CA

ASSIGNEE: The Regents of the University of California, Oakland, CA

(U.S. corp.) 07/614,474

APPL-NO: Nov. 16, 1990 DATE FILED: ART-UNIT: 182

PRIM-FYMR. Esther L. Kepplinger

ASST-EXMR: Donna C. Wortman LEGAL-REP: Townsend and Townsend

US PAT NO: 5,118,602 [IMAGE AVAILABLE] L11: 8 of 13

ABSTRACT:

Compositions derived from a novel viral isolate designated \*\*feline\*\* T-lymphotropic \*\*lentivirus\*\* (FTLV) include the whole virus; proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and \*\*vaccination\*\* against FTLV. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. \*\*Vaccines\*\* include both wholly and partially inactivated viruses and subunit \*\*vaccines\*\*. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (\*\*HIV\*\*).

L11: 9 of 13 US PAT NO: 5,112,756 [IMAGE AVAILABLE]

May 12, 1992 DATE ISSUED:

Continuous production of bovine Maedi-Visna-like viral TITLE:

antigens in Cf2Th cells

INVENTOR: Alain M. P. Bouillant, Aylmer, Canada

Klaus Nielsen, Richmond, Canada Gerda M. Ruckerbauer, Nepean, Canada Bakhshish S. Samagh, Nepean, Canada William C. D. Hare, North Gower, Canada

ASSIGNEE: Canadian Patents and Development Limited, Canada (foreign

corp.)

07/057,213 APPL-NO: DATE FILED: Jun. 1, 1987

ART-UNIT: 184

PRIM-EXMR: Elizabeth C. Weimar

ASST-EXMR: **Gail Poulos** LEGAL-REP: Kenyon & Kenyon

L11: 9 of 13 US PAT NO: 5,112,756 [IMAGE AVAILABLE]

Permanent infection of a cell line such as a canine thymus cell line with a retrovirus such as equine infectious anemia virus and bovine Maedi-Visna-like virus is now possible. By culturing such an infected cell line under appropriate conditions, it is now possible to produce large quantities of viral antigens on a continuous basis. Such antigens are useful in for diagnostics and research.

L11: 10 of 13 US PAT NO: 5,106,616 [IMAGE AVAILABLE]

DATE ISSUED: Apr. 21, 1992

TITLE: Administration of acemannan

INVENTOR:

Bill H. McAnalley, Grand Prairie, TX Robert H. Carpenter, Bastrop, TX Harley R. McDaniel, Dallas, TX

Carrington Laboratories, Inc., Irving, TX (U.S. corp.) ASSIGNEE:

APPL-NO: 07/229,164 DATE FILED: Aug. 5, 1988

ART-UNIT: 183

John W. Rollins PRIM-EXMR: LEGAL-REP: Johnson & Gibbs

L11: 10 of 13 US PAT NO: 5,106,616 [IMAGE AVAILABLE]

Accemannan has now been discovered to be a potent inducer of Interleukin 1 (Il-1) and prostaglandin E.sub.2 (PGE.sub.2) production by human peripheral blood adherent cells in culture. Il-1 has been shown to be an important macrophage product and is associated with influencing the activity and production of T lymphocytes, fibroblasts, B lymphocytes and endothelial cells. Acemannan has no demonstrated toxicity, and acts as an adjuvant and immunoenhancer. Administration of an amount of acemannan sufficient to stimulate monocytes and macrophages not only produces II-1 and PGE.sub.2 but also stimulates phagocytosis, increases antibody production, enhances antiviral activity in the serum and, in those patients with \*\*AIDS\*\*/ARC, produces defective \*\*HIV\*\* virus.
Acemannan has been shown to affect the rate of virus production in viral \*\*vaccine\*\* master seed cultures by accelerating the rate of viral replication. In addition, acemannan is a potent adjuvant to viral \*\*vaccines\*\* in chickens. Acemannan has also shown specific antitumor activity against sarcoid tumors in horses.

US PAT NO: 5,037,753 [IMAGE AVAILABLE] L11: 11 of 13 DATE ISSUED: Aug. 6, 1991

TITLE: \*\*Feline\*\* t-lymphotropic \*\*lentivirus\*\*

INVENTOR:

Niels C. Pedersen, Winters, CA Janet K. Yamamoto, Davis, CA The Regents of the University of California, Berkeley, CA ASSIGNEE:

(U.S. corp.) 07/618,030

APPL-NO: DATE FILED: Nov. 16, 1990

ART-UNIT: 185

PRIM-EXMR: Richard A. Schwartz

ASST-EXMR: M. R. Mosher

LEGAL-REP: Townsend and Townsend

US PAT NO: 5,037,753 [IMAGE AVAILABLE] L11: 11 of 13

### ABSTRACT:

Compositions derived from a novel viral isolate designated \*\*feline\*\* T-lymphototropic \*\*lentivirus\*\* (FTLV) include the whole virus; proteins, polypeptides and, polynucleotide sequences derived from the virus; and antibodies to antigenic sites on the virus. These compositions are useful in a variety of techniques for the detection of and \*\*vaccination\*\* against FTLV. Detection methods disclosed include immunoassays for both the virus and antibodies to the virus, and the use of polynucleotide probes to detect the viral genome. \*\*Vaccines\*\* include both wholly and partially inactivated viruses and subunit \*\*vaccines\*\*. Whole, live virus is also useful as a model system for predicting the behavior of human immunodeficiency virus (\*\*HIV\*\*).

4,918,166 [IMAGE AVAILABLE] Apr. 17, 1990 US PAT NO: L11: 12 of 13

DATE ISSUED:

Particulate hybrid \*\*HIV\*\* antigens TITLE: INVENTOR: Alan J. Kingsman, Islip, United Kingdom Susan M. Kingsman, Islip, United Kingdom Sally E. Adams, Kidlington, United Kingdom

ASSIGNEE: Oxford Gene Systems Limited, Oxford, England (foreign

corp.) 07/112,083 Oct. 26, 1987

DATE FILED: ART-UNIT: 181

PRIM-EXMR: Christine M. Nucker

Allegretti & Witcoff, Ltd. LEGAL-REP:

US PAT NO: 4,918,166 [IMAGE AVAILABLE] L11: 12 of 13

# **ABSTRACT:**

APPL-NO:

Fusion proteins comprise a77 first amino acid sequence and a second amino acid sequence. The first amino acid sequence is derived from a retrotransposon or an RNA retrovirus and confers on the fusion protein the ability to assemble into particles; an example is the product of the YTA gene of the yeast retrotransposon Ty. The second amino acid sequence is an \*\*HIV\*\* antigen. So particles formed of the fusion proteins may be useful in \*\*vaccines\*\* or in diagnostic or purification applications.

US PAT NO: 4,806,467 [IMAGE AVAILABLE] L11: 13 of 13

Feb. 21, 1989 DATE ISSUED:

TITLE: Method for the detection of equine infectious anemia and

other retrovirus infections using a competitive

enzyme-linked immunoabsorbent assay and reagents useful

in the same

INVENTOR: James P. Porter, Oakland, CA

Tatsuo Matsushita, Fort Collins, CO Lyndal K. Hesterberg, Fort Collins, CO

ASSIGNEE: Fermenta Animal Health Company, Kansas City, MO (U.S.

corp.) APPL-NO: 06/789,910 DATE FILED: Oct. 21, 1985

ART-UNIT: 182

PRIM-EXMR: Sam Rosen

LEGAL-REP: Sughrue, Mion, Zinn, Macpeak, and Seas

US PAT NO: 4,806,467 [IMAGE AVAILABLE] L11: 13 of 13

# ABSTRACT:

The present invention relates to a method of detecting either antibody or antigen in the serum of horses infected with equine infectious anemia

using a competitive enzyme-linked immunoabsorbent assay technique and reagents useful in such an assay. The competitive enzyme-linked immunoabsorbent assay incorporates a purified virus antigen conjugate and a monoclonal antibody specific for the virus antigen as both the reacting and competing components. Alternatively, the competitive enzyme-linked immunoabsorbent assay incorporates a purified virus antigen and a monoclonal antibody conjugate specific for the viral antigen as both reacting and competing components. This invention also relates to detecting antigen and antibody found in other retrovirus infections such as Acquired Immunodeficiency Syndrome in humans.

### => d l9 cit 1-183

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- 2. 5,455,351, Oct. 3, 1995, Retroviral protease inhibiting piperazine compounds; Dale J. Kempf, et al., 544/366, 60, 121, 133, 137, 238, 333, 364, 369 [IMAGE AVAILABLE]
- 3. 5,447,915, Sep. 5, 1995, Terminally blocked antiviral peptides; Stuart Schreiber, et al., 514/18; 435/974; 436/63, 501; 514/2, 11, 19; 530/300, 317, 331; 548/537 [IMAGE AVAILABLE]
- 4. 5,447,861, Sep. 5, 1995, Continuous mammalian cell lines having monocyte/macrophage characteristics and their establishment in vitro; Geary W. Collins, et al., 435/240.21, 240.2, 240.23 [IMAGE AVAILABLE]
- 5. 5,445,953, Aug. 29, 1995, Direct molecular cloning of a modified poxvirus genome; Friedrich Dorner, et al., 435/172.3, 235.1, 320.1; 935/32, 57 [IMAGE AVAILABLE]
- 5,441,943, Aug. 15, 1995, Uses of aloe products; Bill H. McAnalley, et al., 514/54, 824; 536/123.1 [IMAGE AVAILABLE]
- 7. 5,439,793, Aug. 8, 1995, Method for producing a polynucleotide having an intramolecularly base-paired structure; Samuel Rose, et al., 435/6, 91.2; 935/77, 78 [IMAGE AVAILABLE]
- 8. 5,437,976, Aug. 1, 1995, Multi-domain DNA ligands bound to a solid matrix for protein and nucleic acid affinity chromatography and processing of solid-phase DNA; Joseph G. Utermohlen, 435/6; 536/23.1, 24.33, 25.4; 935/19, 20, 21 [IMAGE AVAILABLE]
- 9. 5,436,146, Jul. 25, 1995, Helper-free stocks of recombinant adeno-associated virus vectors; Thomas E. Shenk, et al., 435/172.3, 91.4, 235.1, 240.2, 320.1; 536/23.72 [IMAGE AVAILABLE]
- 10. 5,429,922, Jul. 4, 1995, Composition and method for distinguishing virulent and non-virulent toxoplasma infections; L. David Sibley, et al., 435/6, 320.1; 536/23.1; 935/76, 77, 78 [IMAGE AVAILABLE]
- 11. 5,426,181, Jun. 20, 1995, DNA encoding cytokine-induced protein, TSG-14; Tae H. Lee, et al., 536/23.5; 435/69.1, 252.3, 320.1; 536/23.1 [IMAGE AVAILABLE]
- 12. 5,424,197, Jun. 13, 1995, H. saimiri-HTLV-X region vector; William A. Haseltine, et al., 435/69.1, 172.2, 172.3, 240.1, 240.2, 320.1; 935/32, 34, 57, 71, 101, 108, 109 [IMAGE AVAILABLE]
- 13. 5,420,026, May 30, 1995, Self-assembling replication defective hybrid virus particles; Lendon Payne, 435/172.3; 424/202.1, 208.1, 229.1; 435/235.1, 236, 240.2, 320.1; 930/221, 224; 935/32, 34, 57, 70 [IMAGE AVAILABLE]
- 14. 5,413,927, May 9, 1995, \*\*Feline\*\* immunodeficiency virus isolate NCSU.sub.1Lb; Wayne A. F. Tompkins, et al., 435/239, 235.1, 240.2, 948 [IMAGE AVAILABLE]
- 15. 5,413,914, May 9, 1995, Yeast assay to identify inhibitors of dibasic amino acid processing endoproteases; Alex Franzusoff, 435/23, 7.9, 7.91, 224, 810, 975 [IMAGE AVAILABLE]
- 16. 5,413,913, May 9, 1995, Erythrocyte agglutination assay; Carmel J. Hillyard, et al., 435/7.25, 2, 975; 436/519, 520, 819; 530/388.7, 391.1 [IMAGE AVAILABLE]